Foundations of Algebra

Module 2: Arithmetic to Algebra

MODULE ANALYSIS TABLE

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| **Lesson** | **Time allotment** | **Compress/possibly omit/must have** |
| 1. Arithmetic to Algebra | NA | Compress – may be used throughout unit rather than as a task |
| 1. Olympic Cola Display | 60-90 min | Must have – great practical application to distributive property |
| 1. Distributing Using Area | 60-120 min | Must have – extends previous task to include algebra |
| 1. Triangles and Quadrilaterals | 60-90 min | Must have |
| 1. Tiling Lesson | 60-90 min | Must have |
| 1. Conjectures about Properties | 90-120 min | Compress – not necessary to do as a task |
| 1. Quick Check 1 | 45 min | Possibly omit if students perform well on tasks 1-6 above. |
| 1. Visual Patterns | 120 min | Must have – good preparation for writing linear equations later |
| 1. Translating Math | 60-90 min | Must have – note that there is no student version of the task—it is teacher facilitated |
| 1. Exploring Expressions | 60-120 min | Compress – good opportunity to differentiate by assigning students only the lesson(s) they need |
| 1. A Few Folds | 60 min | Compress – may be done as an opener to Bacterial Growth rather than stand-along task |
| 1. Bacterial Growth | 45-60 min | Must have |
| 1. Excursions with Exponents | 60 min | Possibly omit if students understand the laws of exponents |
| 1. Squares, Area, Cubes, Volume, Roots…Connected? | 60-120 min | Compress – may be done as an opener to task 16 below. |
| 1. Quick Check 2 | 45 min | Possibly omit if students perform well on tasks 8-14 above. |
| 1. What’s the “Hype” about Pythagoras? | 60-90 min | Must have |
| 1. Fabulous Formulas | 60-120 min | Must have |
| 1. The Algebra of Magic | 90-120 min | Must have – nice culminating task |
| TOTAL | ~26 days | Note: Quick Checks can also be used for HW |